

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Massoud Kayvanjah

GENERAL INFORMATION:

Name: Kentucky Hydrocarbon, a Division of **EQUITABLE RESOURCES ENERGY COMPANY.**

Address: 72 Maple Street, Langley KY 41645

Date application received: December 14, 1999

SIC/Source description: 1321

EIS #: 021-071-00140

Application log number: I1118/E835/G409/51196

Permit number: V-03-026

APPLICATION TYPE/PERMIT ACTIVITY:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Initial issuance | <input type="checkbox"/> General permit         |
| <input type="checkbox"/> Permit modification         | <input type="checkbox"/> Conditional major      |
| __Administrative                                     | <input checked="" type="checkbox"/> Title V     |
| __Minor  | <input type="checkbox"/> Synthetic minor        |
| __Significant  | <input checked="" type="checkbox"/> Operating   |
| <input type="checkbox"/> Permit renewal              | <input type="checkbox"/> Construction/operating |

COMPLIANCE SUMMARY:

- |   |   |
|---|---|
| <input type="checkbox"/> Source is out of compliance                | <input type="checkbox"/> Compliance schedule included |
| <input checked="" type="checkbox"/> Compliance certification signed |   |

APPLICABLE REQUIREMENTS LIST:

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> NSR                   | <input type="checkbox"/> NSPS                                       | <input checked="" type="checkbox"/> SIP |
| <input type="checkbox"/> PSD                   | <input type="checkbox"/> NESHAPS                                    |   |
| <input type="checkbox"/> Other                 | <input type="checkbox"/> Not major modification per 401 KAR 51:017, |   |
| <input type="checkbox"/> Netted out of PSD/NSR | 1(23)(b) or 51:052,1(14)(b)   |   |

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM <sub>10</sub>	12.6	12.6
SO <sub>2</sub>	0.06	0.06
NO <sub>x</sub>	393	393
CO	15	15
VOC	14.6	14.6
LEAD		
HAP less than 10 tpy (by CAS)	0.01	0.01

SOURCE PROCESS DESCRIPTION:

Kentucky Hydrocarbon, Inc., a division of Equitable Resources Energy Company, owns the compression units and operates the plant which is a major source for nitrogen oxide (NO<sub>x</sub>) and a minor source of carbon monoxide, VOC, particulate matter, sulfur dioxides, and HAPs.

This plant produces liquid hydrocarbons from natural gas pipes entering the plant. Natural gas is compressed through five Cooper-Bessemer 2000 HP compressors, which are owned and operated by Kentucky Hydrocarbon.

Markwest owns the processing facilities and is operated by Kentucky Hydrocarbon, where water content is removed, and hydrocarbons are cooled for recovery. The liquids are segregated into propane, butane, ethane, pentane, methane, gasoline, and remaining residue gas is sold for natural gas heating process.

The Maytown plant originally was built in 1956 as a JT-type plant to process 50 mm SCFD (10 mm SCFD per Compressor) of inlet gas for high ethane (88%) and propane recovery.